



Sequence Listing

<110> Ashkenazi, Avi J.
Baker, Kevin P.
Chuntharapai, Anan
Gurney, Austin
Kim, Kyung Jin
Wood, William I.

<120> Apo-2DcR

<130> P1110P1

<140> US 09/096,500

<141> 1998-06-12

<150> US 60/049,911

<151> 1997-06-18

<160> 17

<210> 1

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1

Met	Ala	Arg	Ile	Pro	Lys	Thr	Leu	Lys	Phe	Val	Val	Val	Ile	Val
1				5					10					15

Ala	Val	Leu	Leu	Pro	Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg
				20					25					30

Gln	Glu	Glu	Val	Pro	Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg
				35					40					45

His	Ser	Phe	Lys	Gly	Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser
				50					55					60

Glu	His	Thr	Gly	Ala	Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr
				65					70					75

Thr	Asn	Ala	Ser	Asn	Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val
				80					85					90

Cys	Lys	Ser	Asp	Gln	Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg
				95					100					105

Asp	Thr	Val	Cys	Gln	Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn
				110					115					120

RECEIVED

JUL 11 2008

TECH CENTER 1600/2800

Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu
125 130 135

Val Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val
140 145 150

Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr Pro Ala Ala Glu
155 160 165

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
170 175 180

Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
185 190 195

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
200 205 210

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu
215 220 225

Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr
230 235 240

Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu
245 250 255

Ile Val Phe Val

<210> 2
<211> 1180
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (193) . . . (969)
<223>

<400> 2
gctgtgggaa cctctccacg cgcacgaact cagccaacga tttctgatag 50
atTTTTTggga gtttgaccag agatgcaagg ggtgaaggag cgcttcctac 100
cgttagggaa ctctggggac agagcgcccc ggccgcctga tggccgaggc 150
aggggtgcgac ccaggaccca ggacggcgctc gggaaccata cc atg 195
Met
1

gcc cgg atc ccc aag acc cta aag ttc gtc gtc gtc atc 234
 Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile
 5 10

gtc gcg gtc ctg ctg cca gtc cta gct tac tct gcc acc 273
 Val Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr
 15 20 25

act gcc cgg cag gag gaa gtt ccc cag cag aca gtg gcc 312
 Thr Ala Arg Gln Glu Glu Val Pro Gln Gln Thr Val Ala
 30 35 40

cca cag caa cag agg cac agc ttc aag ggg gag gag tgt 351
 Pro Gln Gln Gln Arg His Ser Phe Lys Gly Glu Glu Cys
 45 50

cca gca gga tct cat aga tca gaa cat act gga gcc tgt 390
 Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala Cys
 55 60 65

aac ccg tgc aca gag ggt gtg gat tac acc aac gct tcc 429
 Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser
 70 75

aac aat gaa cct tct tgc ttc cca tgt aca gtt tgt aaa 468
 Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys
 80 85 90

tca gat caa aaa cat aaa agt tcc tgc acc atg acc aga 507
 Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg
 95 100 105

gac aca gtg tgt cag tgt aaa gaa ggc acc ttc cgg aat 546
 Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn
 110 115

gaa aac tcc cca gag atg tgc cgg aag tgt agc agg tgc 585
 Glu Asn Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys
 120 125 130

cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc tgg 624
 Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp
 135 140

gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc 663
 Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala
 145 150 155

act gtg gaa acc cca gct gct gaa gag aca atg aac acc 702
 Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr
 160 165 170

agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 741
 Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met
 175 180

aac acc agc cca ggg act cct gcc cca gct gct gaa gag 780
 Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu
 185 190 195

aca atg acc acc agc ccg ggg act cct gcc cca gct gct 819
 Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala
 200 205

gaa gag aca atg acc acc agc ccg ggg act cct gcc cca 858
 Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro
 210 215 220

gct gct gaa gag aca atg acc acc agc ccg ggg act cct 897
 Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro
 225 230 235

gcc tct tct cat tac ctc tca tgc acc atc gta ggg atc 936
 Ala Ser Ser His Tyr Leu Ser Cys Thr Ile Val Gly Ile
 240 245

ata gtt cta att gtg ctt ctg att gtg ttt gtt t 970
 Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
 250 255 259

gaaagacttc actgtggaag aaattccttc cttacctgaa aggttcaggt 1020

aggcgctggc tgagggcggg gggcgctgga cactctctgc cctgcctccc 1070

tctgctgtgt tcccacagac agaaacgcct gccctgccc caaaaaaaaaa 1120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1170

aaaaaaaaaa 1180

<210> 3
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 3
 Met Gln Gly Val Lys Glu Arg Phe Leu Pro Leu Gly Asn Ser Gly
 1 5 10 15
 Asp Arg Ala Pro Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro
 20 25 30

Arg	Thr	Gln	Asp	Gly	Val	Gly	Asn	His	Thr	Met	Ala	Arg	Ile	Pro	35	40	45
Lys	Thr	Leu	Lys	Phe	Val	Val	Val	Ile	Val	Ala	Val	Leu	Leu	Pro	50	55	60
Val	Leu	Ala	Tyr	Ser	Ala	Thr	Thr	Ala	Arg	Gln	Glu	Glu	Val	Pro	65	70	75
Gln	Gln	Thr	Val	Ala	Pro	Gln	Gln	Gln	Arg	His	Ser	Phe	Lys	Gly	80	85	90
Glu	Glu	Cys	Pro	Ala	Gly	Ser	His	Arg	Ser	Glu	His	Thr	Gly	Ala	95	100	105
Cys	Asn	Pro	Cys	Thr	Glu	Gly	Val	Asp	Tyr	Thr	Asn	Ala	Ser	Asn	110	115	120
Asn	Glu	Pro	Ser	Cys	Phe	Pro	Cys	Thr	Val	Cys	Lys	Ser	Asp	Gln	125	130	135
Lys	His	Lys	Ser	Ser	Cys	Thr	Met	Thr	Arg	Asp	Thr	Val	Cys	Gln	140	145	150
Cys	Lys	Glu	Gly	Thr	Phe	Arg	Asn	Glu	Asn	Ser	Pro	Glu	Met	Cys	155	160	165
Arg	Lys	Cys	Ser	Arg	Cys	Pro	Ser	Gly	Glu	Val	Gln	Val	Ser	Asn	170	175	180
Cys	Thr	Ser	Trp	Asp	Asp	Ile	Gln	Cys	Val	Glu	Glu	Phe	Gly	Ala	185	190	195
Asn	Ala	Thr	Val	Glu	Thr	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	200	205	210
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Asn	Thr	215	220	225
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	230	235	240
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	245	250	255
Ser	Pro	Gly	Thr	Pro	Ala	Pro	Ala	Ala	Glu	Glu	Thr	Met	Thr	Thr	260	265	270
Ser	Pro	Gly	Thr	Pro	Ala	Ser	Ser	His	Tyr	Leu	Ser	Cys	Thr	Ile	275	280	285

Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
290 295

<210> 4
<211> 1180
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (73) . . . (969)
<223>

<220>
<221> sig_peptide
<222> (73) . . . (194)
<223>

<400> 4
gctgtgggaa cctctccacg cgcacgaact cagccaacga tttctgatag 50

atttttggga gtttgaccag ag atg caa ggg gtg aag gag 90
Met Gln Gly Val Lys Glu
-40 -35

cgc ttc cta ccg tta ggg aac tct ggg gac aga gcg ccc 129
Arg Phe Leu Pro Leu Gly Asn Ser Gly Asp Arg Ala Pro
-30 -25

cgg ccg cct gat ggc cga ggc agg gtg cga ccc agg acc 168
Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr
-20 -15 -10

cag gac ggc gtc ggg aac cat acc atg gcc cgg atc ccc 207
Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro
-5 1 5

aag acc cta aag ttc gtc gtc gtc atc gtc gcg gtc ctg 246
Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu
10 15

ctg cca gtc cta gct tac tct gcc acc act gcc cgg cag 285
Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln
20 25 30

gag gaa gtt ccc cag cag aca gtg gcc cca cag caa cag 324
Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln
35 40

agg cac agc ttc aag ggg gag gag tgt cca gca gga tct 363
Arg His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser

45		50		55	
cat aga tca gaa cat act gga gcc tgt aac ccg tgc aca 402					
His Arg Ser Glu His Thr Gly Ala Cys Asn Pro Cys Thr					
60		65		70	
gag ggt gtg gat tac acc aac gct tcc aac aat gaa cct 441					
Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn Asn Glu Pro					
75		80			
tct tgc ttc cca tgt aca gtt tgt aaa tca gat caa aaa 480					
Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys					
85		90		95	
cat aaa agt tcc tgc acc atg acc aga gac aca gtg tgt 519					
His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys					
100		105			
cag tgt aaa gaa ggc acc ttc cgg aat gaa aac tcc cca 558					
Gln Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro					
110		115		120	
gag atg tgc cgg aag tgt agc agg tgc cct agt ggg gaa 597					
Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu					
125		130		135	
gtc caa gtc agt aat tgt acg tcc tgg gat gat atc cag 636					
Val Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln					
140		145			
tgt gtt gaa gaa ttt ggt gcc aat gcc act gtg gaa acc 675					
Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr					
150		155		160	
cca gct gct gaa gag aca atg aac acc agc ccg ggg act 714					
Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr					
165		170			
cct gcc cca gct gct gaa gag aca atg aac acc agc cca 753					
Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro					
175		180		185	
ggg act cct gcc cca gct gct gaa gag aca atg acc acc 792					
Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr					
190		195		200	
agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 831					
Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met					
205		210			
acc acc agc ccg ggg act cct gcc cca gct gct gaa gag 870					

Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu
 215 220 225

aca atg acc acc agc ccg ggg act cct gcc tct tct cat 909
 Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His
 230 235

tac ctc tca tgc acc atc gta ggg atc ata gtt cta att 948
 Tyr Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile
 240 245 250

gtg ctt ctg att gtg ttt gtt t gaaagacttc actgtggaag 990
 Val Leu Leu Ile Val Phe Val
 255 259

aaattccttc cttacctgaa aggttcaggt aggcgctggc tgagggcggg 1040

gggcgctgga cactctctgc cctgcctccc tctgctgtgt tcccacagac 1090

agaaacgcct gccctgccc caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1180

<210> 5
 <211> 43
 <212> DNA
 <213> Yeast

<400> 5
 tgtaaaacga cggccagtta aatagacctg caattattaa tct 43

<210> 6
 <211> 41
 <212> DNA
 <213> Yeast

<400> 6
 caggaaacag ctatgaccac ctgcacacct gcaaattccat t 41

<210> 7
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 7
 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His
 1 5 10 15
 Leu Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly
 20 25 30

Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys
 35 40 45

Gly Cys Arg Lys

<210> 8
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 8
 Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
 1 5 10 15
 Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln
 20 25 30
 Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln
 35 40 45

Cys Lys Glu

<210> 9
 <211> 70
 <212> DNA
 <213> Homo sapiens

<400> 9
 gggagccgct catgaggaag ttgggcctca tggacaatga gataaagggtg 50
 gctaaagctg aggcagcggg 70

<210> 10
 <211> 1799
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (140) . . . (1372)
 <223>

<220>
 <221> Unsure
 <222> 1367
 <223> W may be adenine or thymine or uracil

<400> 10
 cccacgcgtc cgcataaatc agcacgcggc cggagaaccc cgcaatctct 50

gcgcccacaa aatacaccga cgatgcccga tctactttaa gggctgaaac 100
 ccacgggcct gagagactat aagagcggtc cctaccgcca tggaacaacg 150
 gggacagaac gccccggccg cttcgggggc ccggaaaagg cacggcccag 200
 gacccagggg ggcgcgggga gccaggcctg ggctccgggt cccaagacc 250
 cttgtgctcg ttgtcgccgc ggtcctgctg ttgggtctcag ctgagtctgc 300
 tctgatcacc caacaagacc tagctcccca gcagagagcg gcccacaaac 350
 aaaagaggtc cagcccctca gagggattgt gtccacctgg acaccatata 400
 tcagaagacg gtagagattg catctcctgc aaatatggac aggactatag 450
 cactcactgg aatgacctcc ttttctgctt gcgctgcacc aggtgtgatt 500
 caggtgaagt ggagctaagt ccctgcacca cgaccagaaa cacagtgtgt 550
 cagtgcgaag aaggcacctt ccgggaagaa gattctcctg agatgtgccg 600
 gaagtgccgc acagggtgtc ccagagggat ggtcaaggtc ggtgattgta 650
 caccctggag tgacatcgaa tgtgtccaca aagaatcagg catcatcata 700
 ggagtcacag ttgcagccgt agtcttgatt gtggctgtgt ttgtttgcaa 750
 gtctttactg tggaagaaag tccttcctta cctgaaaggc atctgctcag 800
 gtggtggtgg ggaccctgag cgtgtggaca gaagctcaca acgacctggg 850
 gctgaggaca atgtcctcaa tgagatcgtg agtatcttgc agcccaccca 900
 ggtccctgag caggaaatgg aagtccagga gccagcagag ccaacagggtg 950
 tcaacatggt gtcccccggg gagtcagagc atctgctgga accggcagaa 1000
 gctgaaaggt ctgagaggag gaggctgctg gttccagcaa atgaagggtga 1050
 tcccactgag actctgagac agtgcttcga tgactttgca gacttggtgc 1100
 cttttgactc ctgggagccg ctcatgagga agttgggcct catggacaat 1150
 gagataaagg tggctaaagc tgaggcagcg ggccacaggg acaccttgta 1200
 cacgatgctg ataaagtggg tcaacaaaac cgggcgagat gcctctgtcc 1250
 acacctgct ggatgccttg gagacgctgg gagagagact tgccaagcag 1300

aagattgagg accacttggt gagctctgga aagttcatgt atctagaagg 1350
taatgcagac tctgccwtgt cctaagtgtg attctcttca ggaagtgaga 1400
ccttccttgg ttaccttttt ttctggaaaa agcccaactg gactccagtc 1450
agtaggaaag tgccacaatt gtcacatgac cggtactgga agaaactctc 1500
ccatccaaca tcacccagtg gatggaacat cctgtaactt ttcactgcac 1550
ttggcattat ttttataagc tgaatgtgat aataaggaca ctatggaaat 1600
gtctggatca ttccgtttgt gcgtactttg agatttggtt tgggatgtca 1650
ttgttttcac agcacttttt tctcctaagt taaatgcttt atttatttat 1700
ttgggctaca ttgtaagatc catctacaaa aaaaaaaaaa aaaaaaaaag 1750
ggcggccgcg actctagagt cgacctgcag aagcttggcc gccatggcc 1799

<210> 11
<211> 411
<212> PRT
<213> Homo sapiens

<220>
<221> Unsure
<222> 410
<223> Xaa may be leucine or methionine

<400> 11
Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg
1 5 10 15
Lys Arg His Gly Pro Gly Pro Arg Glu Ala Arg Gly Ala Arg Pro
20 25 30
Gly Leu Arg Val Pro Lys Thr Leu Val Leu Val Val Ala Ala Val
35 40 45
Leu Leu Leu Val Ser Ala Glu Ser Ala Leu Ile Thr Gln Gln Asp
50 55 60
Leu Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser
65 70 75
Pro Ser Glu Gly Leu Cys Pro Pro Gly His His Ile Ser Glu Asp
80 85 90
Gly Arg Asp Cys Ile Ser Cys Lys Tyr Gly Gln Asp Tyr Ser Thr
95 100 105

His	Trp	Asn	Asp	Leu	Leu	Phe	Cys	Leu	Arg	Cys	Thr	Arg	Cys	Asp	110	115	120
Ser	Gly	Glu	Val	Glu	Leu	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	Thr	125	130	135
Val	Cys	Gln	Cys	Glu	Glu	Gly	Thr	Phe	Arg	Glu	Glu	Asp	Ser	Pro	140	145	150
Glu	Met	Cys	Arg	Lys	Cys	Arg	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	155	160	165
Lys	Val	Gly	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val	His	170	175	180
Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	Thr	Val	Ala	Ala	Val	Val	185	190	195
Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	Leu	Leu	Trp	Lys	Lys	200	205	210
Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	Gly	Gly	Gly	Gly	Asp	215	220	225
Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	Pro	Gly	Ala	Glu	Asp	230	235	240
Asn	Val	Leu	Asn	Glu	Ile	Val	Ser	Ile	Leu	Gln	Pro	Thr	Gln	Val	245	250	255
Pro	Glu	Gln	Glu	Met	Glu	Val	Gln	Glu	Pro	Ala	Glu	Pro	Thr	Gly	260	265	270
Val	Asn	Met	Leu	Ser	Pro	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	275	280	285
Ala	Glu	Ala	Glu	Arg	Ser	Gln	Arg	Arg	Arg	Leu	Leu	Val	Pro	Ala	290	295	300
Asn	Glu	Gly	Asp	Pro	Thr	Glu	Thr	Leu	Arg	Gln	Cys	Phe	Asp	Asp	305	310	315
Phe	Ala	Asp	Leu	Val	Pro	Phe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	320	325	330
Lys	Leu	Gly	Leu	Met	Asp	Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	335	340	345
Ala	Ala	Gly	His	Arg	Asp	Thr	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	350	355	360

Val	Asn	Lys	Thr	Gly	Arg	Asp	Ala	Ser	Val	His	Thr	Leu	Leu	Asp
				365					370					375
Ala	Leu	Glu	Thr	Leu	Gly	Glu	Arg	Leu	Ala	Lys	Gln	Lys	Ile	Glu
				380					385					390
Asp	His	Leu	Leu	Ser	Ser	Gly	Lys	Phe	Met	Tyr	Leu	Glu	Gly	Asn
				395					400					405
Ala	Asp	Ser	Ala	Xaa	Ser									
				410										

<210> 12
 <211> 29
 <212> DNA
 <213> Homo sapiens

<400> 12
 atcagggact ttccgctggg gactttccg 29

<210> 13
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 13
 aggatgggaa gtgtgtgata tacccttgat 30

<210> 14
 <211> 418
 <212> PRT
 <213> Homo sapiens

<400> 14
 Gly Arg Gly Ala Leu Pro Thr Ser Met Gly Gln His Gly Pro Ser
 1 5 10 15
 Ala Arg Ala Arg Ala Gly Arg Ala Pro Gly Pro Pro Pro Ala Arg
 20 25 30
 Glu Ala Ser Pro Arg Leu Arg Val His Lys Thr Phe Lys Phe Val
 35 40 45
 Val Val Gly Val Leu Leu Gln Val Val Pro Ser Ser Ala Ala Thr
 50 55 60
 Ile Lys Leu His Asp Gln Ser Ile Gly Thr Gln Gln Trp Glu His
 65 70 75
 Ser Pro Leu Gly Glu Leu Cys Pro Pro Gly Ser His Arg Ser Glu

80					85					90				
Arg	Pro	Gly	Ala	Cys	Asn	Arg	Cys	Thr	Glu	Gly	Val	Gly	Tyr	Thr
				95					100					105
Asn	Ala	Ser	Asn	Asn	Leu	Phe	Ala	Cys	Leu	Pro	Cys	Thr	Ala	Cys
				110					115					120
Lys	Ser	Asp	Glu	Glu	Glu	Arg	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn
				125					130					135
Thr	Ala	Cys	Gln	Cys	Lys	Pro	Gly	Thr	Phe	Arg	Asn	Asp	Asn	Ser
				140					145					150
Ala	Glu	Met	Cys	Arg	Lys	Cys	Ser	Thr	Gly	Cys	Pro	Arg	Gly	Met
				155					160					165
Val	Lys	Val	Lys	Asp	Cys	Thr	Pro	Trp	Ser	Asp	Ile	Glu	Cys	Val
				170					175					180
His	Lys	Glu	Ser	Gly	Asn	Gly	His	Asn	Ile	Trp	Val	Ile	Leu	Val
				185					190					195
Val	Thr	Leu	Val	Val	Pro	Leu	Leu	Leu	Val	Ala	Val	Leu	Ile	Val
				200					205					210
Cys	Cys	Cys	Ile	Gly	Ser	Gly	Cys	Gly	Gly	Asp	Pro	Lys	Cys	Met
				215					220					225
Asp	Arg	Val	Cys	Phe	Trp	Arg	Leu	Gly	Leu	Leu	Arg	Gly	Pro	Gly
				230					235					240
Ala	Glu	Asp	Asn	Ala	His	Asn	Glu	Ile	Leu	Ser	Asn	Ala	Asp	Ser
				245					250					255
Leu	Ser	Thr	Phe	Val	Ser	Glu	Gln	Gln	Met	Glu	Ser	Gln	Glu	Pro
				260					265					270
Ala	Asp	Leu	Thr	Gly	Val	Thr	Val	Gln	Ser	Pro	Gly	Glu	Ala	Gln
				275					280					285
Cys	Leu	Leu	Gly	Pro	Ala	Glu	Ala	Glu	Gly	Ser	Gln	Arg	Arg	Arg
				290					295					300
Leu	Leu	Val	Pro	Ala	Asn	Gly	Ala	Asp	Pro	Thr	Glu	Thr	Leu	Met
				305					310					315
Leu	Phe	Phe	Asp	Lys	Phe	Ala	Asn	Ile	Val	Pro	Phe	Asp	Ser	Trp
				320					325					330
Asp	Gln	Leu	Met	Arg	Gln	Leu	Asp	Leu	Thr	Lys	Asn	Glu	Ile	Asp

	335		340		345
Val Val Arg Ala Gly Thr Ala Gly Pro Gly Asp Ala Leu Tyr Ala					
	350		355		360
Met Leu Met Lys Trp Val Asn Lys Thr Gly Arg Asn Ala Ser Ile					
	365		370		375
His Thr Leu Leu Asp Ala Leu Glu Arg Met Glu Glu Arg His Ala					
	380		385		390
Lys Glu Lys Ile Gln Asp Leu Leu Val Asp Ser Gly Lys Phe Ile					
	395		400		405
Tyr Leu Glu Asp Gly Thr Gly Ser Ala Val Ser Leu Glu					
	410		415		

<210> 15
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 15	
Val Met Asp Ala Val Pro Ala Arg Arg Trp Lys Glu Phe Val Arg	
1 5 10 15	
Thr Leu Gly Leu Arg Glu Ala Glu Ile Glu Ala Val Glu Val Glu	
20 25 30	
Ile Gly Arg Phe Arg Asp Gln Gln Tyr Glu Met Leu Lys Arg Trp	
35 40 45	
Arg Gln Gln Gln Pro Ala Gly Leu Gly Ala Val Tyr Ala Ala Leu	
50 55 60	
Glu Arg Met Gly Leu Asp Gly Cys Val Glu Asp Leu Arg Ser	
65 70	

<210> 16
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 16	
Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg	
1 5 10 15	
Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln	
20 25 30	
Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr	

	35	40	45
Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu			
	50	55	60
Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp			
	65	70	75
Ile Glu Glu			

<210> 17
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 17
Ile Ala Gly Val His Thr Leu Ser Gln Val Lys Gly Phe Val Arg
1 5 10 15
Lys Asn Gly Val Asn Glu Ala Lys Ile Asp Glu Ile Lys Asn Asp
20 25 30
Asn Val Gln Asp Thr Ala Glu Gln Lys Val Gln Leu Leu Arg Asn
35 40 45
Trp His Gln Leu His Gly Lys Lys Glu Ala Tyr Asp Thr Leu Ile
50 55 60
Lys Asp Leu Lys Lys Ala Asn Leu Cys Thr Leu Ala Glu Lys Ile
65 70 75

Gln Thr